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OCT 08 2002

Abstract

Technology Center 2100

AI Data is sent to one or more processing devices which have corresponding addresses. At least a portion of the data is encoded, and a control address is attached to the portion of the data. The control address is associated with the corresponding address of a respective one of the processing devices when the portion of the data is intended solely for the respective processing device. At least a segment of the control address is associated with a group of the processing devices when the portion of the data is intended for each processing device in the group. The portion of the data is transmitted and received, and a control address is read from the received portion of the data. The received portion of the data is decoded to form decoded data when the portion is intended for a group of the processing devices that includes the respective processing device or when the data is intended solely for the respective processing device. The portion of the data is determined to be intended for the group by comparing at least a segment of the control address to a corresponding segment of a stored address that is associated with the group where the segment of the control address and the corresponding segment of the stored address are identified by a stored mask sequence. The portion of the data is determined to be intended solely for respective processing device by comparing the control address to the corresponding address of the respective processing device. The decoded data is delivered to the respective processing device.

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